EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	"018518".apn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/03 17:42
L2	123	((quer$3 or search$3) with term) and (semantic with relat$8 with term)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/03 17:55
L3	5496	(reformulat$3 or refine$) with (search$3 or quer$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/03 17:47
L4	0	1 and 2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/03 17:47
L5	63	2 and 3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/03 17:47
L6	16	5 and (707/3).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/03 17:51
L7	16	6 and (relat$3 with (term or word or string))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/03 17:49
L8	153	((quer$3 or search$3) with term with relevan$3 with web)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/03 17:50

EAST Search History

L9	0	7 and 8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/03 17:51
L10	1	5 and (707/2).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/03 17:51
L11	2	5 and (707/10).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/03 17:51
L12	2	((quer$3 or search$3) with term) and (semantic with relat$8 with term) and (relevant$ near web)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/03 17:57
L13	4	((quer$3 or search$3) with term) and (semantic with relat$8 with term) and (relevant$ with web with (page or document))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/03 18:10
L14	4	((quer$3 or search$3) with (term or word$1 or string or keywords)) and (semantic with relat$8 with term) and (relevant$ with web with (page or document))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/03 18:12
L15	4	((quer$3 or search$3) with (term or word$1 or phrase or string or keywords)) and (semantic with relat$8 with term) and (relevant$ with web with (page or document))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/03 18:13
L16	867	((quer$3 or search$3) with (term or word$1 or phrase or string or keywords)) and (relevant$ with web with (page or document))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/03 18:13

EAST Search History

L17	11	((quer$3 or search$3) with (term or word$1 or phrase or string or keywords)) and (semantic with relat$8 with (term or word or keyword or phrase)) and (relevant$ with web with (page or document))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/03 18:14
L18	2	17 and @ad<"20000823"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/03 18:16

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and it is sure to get the most of the **relevant** data. The P2PSLN forwards **query** re-. quirement according to the **semantic relationship** and the similarity ...
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VISUALIZATION OF A DOCUMENT COLLECTION:
2. a **query** defines a subset of the database, namely the set of "**relevant**" documents;. 3. the results of the **query** are presented sequentially. ...
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selects the **relevant** resources resource discovery phase to a **query** i.e. ... schema classes and class properties, SIMS uses a number of **reformulating** ...
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> logically subsumed by the **query** are selected while the non-**relevant** ones are ... schema classes and class properties, SIMS uses a number of **reformulating** ...
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not consider the conceptual or **semantic relationship** between. the elements of the Response Matrix ... **Reformulating** the **website** will, therefore, allow us to ...
tidia-ae.incubadora.fapesp.br/portal/publications/III_workshop_tidia/PART5_eLearningPoster.pdf - Similar pages

4. Technology State-of-the-Art

Reformulating content in one's own words help in clarifying certain ... Given an initial search, by using **relevance** feedback the initial **query** can be ...
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1 A real-time integration of concept-based search and summarization on Chinese websites

Joe F. Zhou, Weiquan Liu

October 2000 **Proceedings of the 2000 Joint SIGDAT conference on Empirical methods in natural language processing and very large corpora: held in conjunction with the 38th Annual Meeting of the Association for Computational Linguistics - Volume 13**

Publisher: Association for Computational Linguistics

Full text available: pdf(685.02 KB) Additional Information: full citation, abstract, references

This paper introduces an intuitive search environment for casual and novice Chinese users over Internet. The system consists of four components, a concept network, a query reformulation model, a standard search engine, and an automatic summarizer. When the user enters one or more fairly general and vague terms, the search engine returns an initial answer set, and at the same time pipes the query to the concept network that connects thousands of conceptual nodes, each referring to a specific conc ...

2 Challenges in information retrieval and language modeling: report of a workshop held at the center for intelligent information retrieval, University of Massachusetts Amherst, September 2002

James Allan, Jay Aslam, Nicholas Belkin, Chris Buckley, Jamie Callan, Bruce Croft, Sue Dumais, Norbert Fuhr, Donna Harman, David J. Harper, Djoerd Hiemstra, Thomas Hofmann, Eduard Hovy, Wessel Kraaij, John Lafferty, Victor Lavrenko, David Lewis, Liz Liddy, R. Manmatha, Andrew McCallum, Jay Ponte, John Prager, Dragomir Radev, Philip Resnik, Stephen Robertson, Roni Rosenfeld, Salim Roukos, Mark Sanderson, Rich Schwartz, Amit Singhal, Alan Smeaton, Howard Turtle, Ellen Voorhees, Ralph Weischedel, Jinxi Xu, ChengXiang Zhai

April 2003 **ACM SIGIR Forum**, Volume 37 Issue 1

Publisher: ACM Press

Full text available: pdf(1.60 MB) Additional Information: full citation, citings, index terms, review

3 Search improvement via automatic query reformulation

Susan Gauch, John B. Smith

July 1991 **ACM Transactions on Information Systems (TOIS)**, Volume 9 Issue 3

Publisher: ACM Press

Full text available: pdf(2.28 MB) Additional Information: full citation, references, citings, index terms, review

Keywords: Expert Systems, full-text information retrieval, online search assistance, query reformulation, textbases

4 Research track paper: Query chains: learning to rank from implicit feedback

Filip Radlinski, Thorsten Joachims

August 2005 **Proceeding of the eleventh ACM SIGKDD international conference on Knowledge discovery in data mining KDD '05**

Publisher: ACM Press

Full text available: pdf(572.84 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents a novel approach for using clickthrough data to learn ranked retrieval functions for web search results. We observe that users searching the web often perform a sequence, or chain, of queries with a similar information need. Using query chains, we generate new types of preference judgments from search engine logs, thus taking advantage of user intelligence in reformulating queries. To validate our method we perform a controlled user study comparing generated preference judgme ...

Keywords: clickthrough data, implicit feedback, machine learning, search engines, support vector machines

5 Retrieving software objects in an example-based programming environment

Scott Henninger

September 1991 **Proceedings of the 14th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '91**

Publisher: ACM Press

Full text available: pdf(1.19 MB) Additional Information: full citation, references, citings, index terms

6 Web mining with search engines: Generating query substitutions

Rosie Jones, Benjamin Rey, Omid Madani, Wiley Greiner

May 2006 **Proceedings of the 15th international conference on World Wide Web WWW '06**

Publisher: ACM Press

Full text available: pdf(305.01 KB) Additional Information: full citation, abstract, references, index terms

We introduce the notion of query substitution, that is, generating a new query to replace a user's original search query. Our technique uses modifications based on typical substitutions web searchers make to their queries. In this way the new query is strongly related to the original query, containing terms closely related to all of the original terms. This contrasts with query expansion through pseudo-relevance feedback, which is costly and can lead to query drift. This also contrasts with quer ...

Keywords: paraphrasing, query rewriting, query substitution, sponsored search

7 Web: Building a web thesaurus from web link structure

Zheng Chen, Shengping Liu, Liu Wenyin, Geguang Pu, Wei-Ying Ma

July 2003 **Proceedings of the 26th annual international ACM SIGIR conference on**

Research and development in informaion retrieval SIGIR '03
Publisher: ACM Press

Full text available: pdf(292.05 KB) Additional Information: full citation, abstract, references, citings, index terms

Thesaurus has been widely used in many applications, including information retrieval, natural language processing, and question answering. In this paper, we propose a novel approach to automatically constructing a domain-specific thesaurus from the Web using link structure information. The proposed approach is able to identify new terms and reflect the latest relationship between terms as the Web evolves. First, a set of high quality and representative websites of a specific domain is selected. ...

Keywords: content structure, link analysis, query expansion, thesaurus

8 Learning search engine specific query transformations for question answering

Eugene Agichtein, Steve Lawrence, Luis Gravano
April 2001 **Proceedings of the 10th international conference on World Wide Web WWW '01**
Publisher: ACM Press
Full text available: pdf(205.68 KB) Additional Information: full citation, references, citings, index terms

Keywords: information retrieval, query expansion, question answering, web search

9 Relevance feedback: Using web-graph distance for relevance feedback in web search

Sergei Vassilvitskii, Eric Brill
August 2006 **Proceedings of the 29th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '06**
Publisher: ACM Press
Full text available: pdf(885.86 KB) Additional Information: full citation, abstract, references, index terms

We study the effect of user supplied relevance feedback in improving web search results. Rather than using query refinement or document similarity measures to rerank results, we show that the web-graph distance between two documents is a robust measure of their relative relevancy. We demonstrate how the use of this metric can improve the rankings of result URLs, even when the user only rates one document in the dataset. Our research suggests that such interactive systems can significantly improv ...

Keywords: link analysis, relevance feedback, web search

10 Evaluation of an expert system for searching in full text

S. Gauch
December 1989 **Proceedings of the 13th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '90**
Publisher: ACM Press
Full text available: pdf(1.44 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents a prototype expert system which provides online search assistance. The expert system automatically reformulates queries, using an online thesaurus as the source of domain knowledge, and a knowledge base of domain-independent search tactics. The expert system works with a full-text database which requires no syntactic or semantic pre-processing. In addition, the expert system ranks the retrieved passages in

decreasing order of probable relevance. Users' search ...

11 An evolutionary approach to constructing effective software reuse repositories

Scott Henninger
April 1997 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 6 Issue 2
Publisher: ACM Press

Full text available: pdf(662.79 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Repositories for software reuse are faced with two interrelated problems: (1) acquiring the knowledge to initially construct the repository and (2) modifying the repository to meet the evolving and dynamic needs of software development organizations. Current software repository methods rely heavily on classification, which exacerbates acquistition and evolution problems by requiring costly classification and domain analysis efforts before a repository can be used effectively, This article o ...

Keywords: component repositories, information retrieval, software reuse

12 XML data management and P2P: SRI: exploiting semantic information for effective query routing in a PDMS

Federica Mandreoli, Riccardo Martoglia, Simona Sassatelli, Wilma Penzo
November 2006 **Proceedings of the eighth ACM international workshop on Web information and data management WIDM '06**
Publisher: ACM Press

Full text available: pdf(257.14 KB) Additional Information: full citation, abstract, references, index terms

The huge amount of data available from Internet information sources has focused much attention on the sharing of distributed information through Peer Data Management Systems (PDMSs). In a PDMS, peers have a schema on their local data, and they are related each other through semantic mappings that can be defined between their own schemas.Querying a PDMS means either flooding the network with messages to all peers or take advantage of a routing mechanism to reformulate a query only on the *best*< ...

Keywords: *data-sharing P2P systems, query routing, semantics*

13 A unified framework for semantics and feature based relevance feedback in image retrieval systems

Ye Lu, Chunhui Hu, Xingquan Zhu, HongJiang Zhang, Qiang Yang
October 2000 **Proceedings of the eighth ACM international conference on Multimedia MULTIMEDIA '00**
Publisher: ACM Press

Full text available: pdf(696.54 KB) Additional Information: full citation, abstract, references, citings, index terms

The relevance feedback approach to image retrieval is a powerful technique and has been an active research direction for the past few years. Various ad hoc parameter estimation techniques have been proposed for relevance feedback. In addition, methods that perform optimization on multi-level image content model have been formulated. However, these methods only perform relevance feedback on the low-level image features and fail to address the images' semantic content. In this paper, we propose ...

Keywords: image retrieval, image semantics, multimedia database, relevance feedback

14 Articles: Toward an ontology-enhanced information filtering agent

Kwang Mong Sim
March 2004 **ACM SIGMOD Record**, Volume 33 Issue 1
Publisher: ACM Press
Full text available: pdf(240.41 KB) Additional Information: full citation, abstract, references

Whereas search engines assist users in locating initial information sources, often an overwhelmingly large number of *ULRs* is returned, and the task of browsing websites rests heavily on users. The contribution of this work is developing an *information filtering agent (IFA)* that assists users in identifying out-of-context web pages and rating the relevance of web pages. An *IFA* determines the relevance of web pages by adopting three heuristics: (i) detecting *evidence phrase* ...

15 New search paradigms: Searching with context

Reiner Kraft, Chi Chao Chang, Farzin Maghoul, Ravi Kumar
May 2006 **Proceedings of the 15th international conference on World Wide Web WWW '06**
Publisher: ACM Press
Full text available: pdf(191.91 KB) Additional Information: full citation, abstract, references, index terms

Contextual search refers to proactively capturing the information need of a user by automatically augmenting the user query with information extracted from the search context; for example, by using terms from the web page the user is currently browsing or a file the user is currently editing.We present three different algorithms to implement contextual search for the Web. The first, *it query rewriting (QR)*, augments each query with appropriate terms from the search context and uses an off ...

Keywords: contextual search, meta-search, rank aggregation, specialized search engines, web search

16 Supporting the construction and evolution of component repositories

Scott Henninger
May 1996 **Proceedings of the 18th international conference on Software engineering ICSE '96**
Publisher: IEEE Computer Society
Full text available: pdf(1.08 MB) Additional Information: full citation, abstract, references, index terms
Publisher Site

Repositories must be designed to meet the evolving and dynamic needs of software development organizations. Current software repository methods rely heavily on classification, which exacerbates acquisition and evolution problems by requiring costly classification and domain analysis efforts before a repository can be used effectively. This paper outlines an approach in which minimal initial structure is used to effectively find relevant software components while methods are employed to increment ...

Keywords: CodeFinder, PEEL, classification, component repositories, domain analysis, minimal initial structure, retrieval system, reusable software artifacts, software development, software engineering, software repository methods, software reusability

17 Structured document handling—a case for integrating databases and information retrieval

Klemens Böhm, Adrian Müller, Erich Neuhold
November 1994 **Proceedings of the third international conference on Information and knowledge management CIKM '94**

Publisher: ACM Press
Full text available: pdf(1.01 MB) Additional Information: full citation, abstract, references, index terms

In this paper we discuss the structured multimedia documents that will be, or already are, to some degree the communication backbone of the so-called superhighways. It will be shown that storage and retrieval of such documents will best be handled by an integration of database and information retrieval technologies. We assume documents to be structured with the help of standards like SGML/HyTime and represented by the multitude of formats currently used for multimedia data.Starti ...

18 A survey of Web metrics
Devanshu Dhyani, Wee Keong Ng, Sourav S. Bhowmick
December 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 4
Publisher: ACM Press
Full text available: pdf(289.28 KB) Additional Information: full citation, abstract, references, citings, index terms

The unabated growth and increasing significance of the World Wide Web has resulted in a flurry of research activity to improve its capacity for serving information more effectively. But at the heart of these efforts lie implicit assumptions about "quality" and "usefulness" of Web resources and services. This observation points towards measurements and models that quantify various attributes of web sites. The science of measuring all aspects of information, especially its storage and retrieval or ...

Keywords: Information theoretic, PageRank, Web graph, Web metrics, Web page similarity, quality metrics

19 Industrial and government applications track posters: Identifying "best bet" web search results by mining past user behavior
Eugene Agichtein, Zijian Zheng
August 2006 **Proceedings of the 12th ACM SIGKDD international conference on Knowledge discovery and data mining KDD '06**
Publisher: ACM Press
Full text available: pdf(829.11 KB) Additional Information: full citation, abstract, references, index terms

The top web search result is crucial for user satisfaction with the web search experience. We argue that the importance of the relevance at the top position necessitates special handling of the top web search result for some queries. We propose an effective approach of leveraging millions of past user interactions with a web search engine to automatically detect "best bet" top results preferred by majority of users. Interestingly, this problem can be more effectively addressed with classificatio ...

Keywords: user behavior mining, web search ranking, web usage mining

20 XIRQL: An XML query language based on information retrieval concepts
Norbert Fuhr, Kai Großjohann
April 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 2
Publisher: ACM Press
Full text available: pdf(281.91 KB) Additional Information: full citation, abstract, references, citings, index terms

XIRQL ("circle") is an XML query language that incorporates imprecision and vagueness for both structural and content-oriented query conditions. The corresponding uncertainty is handled by a consistent probabilistic model. The core features of XIRQL are (1) document ranking based on index term weighting, (2) specificity-oriented search for

retrieving the most relevant parts of documents, (3) datatypes with vague predicates for dealing with specific types of content and (4) structural vagueness f ...

Keywords: Path algebra, XML, XQuery, probabilistic retrieval, ranked retrieval, vague predicates

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